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~~CALCULATE Chiller cooling capacity – Cooling Load kW BTU Refrigeration Ton Different type of Chiller Capacity, Specification and function with Details Chiller efficiency calculation Chiller Capacity Calculation How to Calculate Cooling Capacity of a Chiller~~

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How to calculate cooling capacity of chiller

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How to size a chiller.

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SUBTRACT 2% (approximately) to the required nominal

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tonnage for every F degree above 50°F. Example: If you need an LWT of 40°F, specify a chiller that has 20% (10 X 2%) more capacity than if your LWT was 50°F. Likewise, if your LWT is higher, say 60°F, you could specify a chiller with 20% less capacity.

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If the cooling capacity were calculated at a higher ambient temperature of 113°F, there would be an additional 10% derating. Inversely, when ambient temperatures are lower, the conditions at the refrigeration condenser are more favorable. This allows for reduced head pressure and increased efficiency in the refrigeration circuit, thereby increasing the available cooling capacity.

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chilling abilities is reduced by 20%. This means the chiller with a 10 ton capacity for chilling water will have a capacity between 8 tons and 9.3 tons with 40% PG. Most American Chillers have heat exchangers large enough to handle 30% PG without loss of capacity due to our “value-added” engineering practices. We can

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